

From: [Chip Humphrey](#)
To: [McKenna, James \(Jim\)](#); ricka@bes.ci.portland.or.us; rjw@nwnatural.com
Cc: grevelas@integral-corp.com; kpine@integral-corp.com; [Eric Blischke](#)
Subject: Fw: Request for Additional Information re: Round 1 Biota/Sediment Sampling
Date: 10/06/2005 06:09 PM

OK, this may look familiar, but here's the "official" request

Jim, Bob and Rick:

This is to request additional information regarding the Round 1 Sampling effort to facilitate our review of the RI/FS data and identification of Round 3 data gaps. We are looking for documentation regarding some aspects of procedures used for collecting and compositing biota and sediment samples.

Appendix C (Table C-1) of the Portland Harbor RI/FS Round 1 Field Sampling Report presents the following data relevant to the compositing process: (1) Collection date, (2) collection location (northing and easting), (3) Site Round (1 or 1A), (4) Station, (5) faunal species, (6) tissue (whole body, fillet with skin, fillet without skin), (7) sample (unique ID number for the individual fish or crayfish), (8) fish length, and (9) fish mass.

However, Table C-1 does not appear to indicate (1) which specific individual fish and crayfish comprised each composited sample, (2) which specific individual fish and crayfish were not included in any composited sample, and (3) what northing and easting location is associated with each composite sample (and thus all individual fish / crayfish that comprise each composite) or how these coordinates were calculated.

In addition, it appears that fish were measured for length and mass (1) only in the field in some cases, (2) only in the lab in some cases, and (3) in both the field and lab in some cases. Thus, it is not clear what measurements were used in the compositing process. Further clarification of these data would be very useful in further evaluating the results of this study. EPA is requesting that columns be added to Table C-1 to indicate: (1) fish composited or not composited: Yes or No, (2) fish / crayfish total length, (3) fish / crayfish mass (gm), (4) mass in grams contributed to composite sample, (5) composite sample number, (6) composite sample northing, and (7) composite sample easting.

Also, please explain how northing and easting coordinates were calculated for composite samples from the individual northing and easting coordinates from individual fish / crayfish.

Similar issues exist regarding the collection and compositing of sediment samples. Appendix B (Table B-1) presents the locations of individual sediment samples, but does not present (1) what mass of sediment from each individual sample was used to make each composite sample, or (2) the northing and easting calculated for the composite sample from the individual sediment samples. EPA is requesting that three columns be added to Table B-1 as follows: (1) sediment mass contributed to the composite sample, (2) composite sample northing, and (3) composite sample easting.

We realize this is a busy time for you and your consultants, and appreciate your assistance as

we work through our data review. Please let Eric or me know if you have any questions or concerns regarding this request.

Chip Humphrey
EPA RPM